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PHILIPS INTELLECTUAL PROPERTY & STANDARDS			BONSHOCK, DENNIS G	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/801,626	DE BLIEK ET AL.	
	Examiner Dennis G. Bonshock	Art Unit 2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 October 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-16 and 18-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-16 and 18-21 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

Non-Final Rejection

Response to Amendment

1. It is hereby acknowledged that the following papers have been received and placed on record in the file: Amendment as received on 10-24-2005.

2. Claims 1-21 have been examined.

Status of claims:

3. Claims 1-16 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Roewer, Patent # 5,734,915.

4. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Roewer and Evans, Patent # 6,347,329.

5. Claim 17 has been canceled by the applicant.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-16 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Roewer, Patent # 5,734,915.

8. With regard to claim 1, which teaches an interface for processing and presenting image data, Roewer teaches, in column 4, line 33 and column 4, line 46, providing a GUI for medical imagery in which all necessary information is visible. With regard to

claim 1 further teaching arrangement to co-operate with a database for obtaining image data, Roewer teaches, in column 8, line 66, an operator loading a patients image data from a local database. With regard to claim 1 further teaching a visual display unit, Roewer teaches, in column 4, line 48, displaying the images on a workstation. With regard to claim 1 further teaching an input member allowing for communication, Roewer teaches in column 4, line 59, input via a mouse, hot keys, and other input devices. With regard to claim 1 further teaching the interface being arranged to select an image from each group of coherent image data, Roewer teaches, in column 11, lines 45-48, stepping through a hierarchy to select image data. With regard to claim 1 further teaching forming a pictorial representative of the selected image, Roewer teaches, in column 4, lines 50-57, providing a visual representation of the images. With regard to claim 1, further teaching causing the representative pictorial to be displayed on the display unit, Roewer teaches, in column 13, line 35 and figures 4a-c, the display of the images. With regard to claim 1, further teaching the interface arranged to cause the display unit to display a plurality of representative pictorials in a row adjacent to one another, Roewer teaches, in column 13, lines 35-47, in column 9, lines 55-64 and in figures 4a-c, display of a plurality of representative pictorials in rows adjacent to one another. With regard to claim 1, further teaching the pictorials being formed from an image selected from a different group of coherent image data, Roewer teaches, in column 11, lines 34-36 and lines 45-54, using images from several different sources of grouped images (patient hierarchies) to create the select group of images (PCW), and further teaching, in column 45, lines 53-59, that with the window used for arrangement

(PCW) the user can compose new images, based on previously captured images and translate the images in to ACR-NEMA communication format. With regard to claim 1, further teaching the interface being adapted to have the ability to be able to differentiate between representative pictorials which relate do and do not relate to a particular patient selected on the interface and cause only said representative pictorials which relate to said particular patient to remain displayed, Roewer teaches, in column 11, lines 45-54, column 5, lines 1-4, column 16, lines 33-34, and in figure 7, the user ability to select for display the images of a particular patient, this can further be seen in figure 7, where a user is able to select for display via the "GO" tab in the menu bar images of a "previous patient" or "next patient". With regard to claim 1, further teaching that the interface has the ability to be able to differentiate independent of sequential order of said representative pictorials between said representative pictorials which relate to and do not relate to a particular patient, Roewer teaches, in column 11, lines 34-54, column 19, lines 11-17, and column 20, lines 44-53, selectively displaying the images on the screen where the images have a patients name superimposed over the image.

9. With regard to claim 2, which teaches image data combined with attribute data and that characterizes a patient or relevant image data, and that the interface is arranged to select feasible applications for each group and separately adds a reference to each that was characterized the same, Roewer teaches, in column 5, line 42, that images, text, and graphics items can be sent to a storage device for later retrieval. In column 19, lines 52-60, in column 11, line 1-15, and column 20, line 48, Roewer teaches that his text templates contain modality (form defining) information concerning

the attributes of the source modality that produced the medical image, and other physical or technical attributes of the image. Roewer goes on to teach that these text templates can be referenced by ID numbers, which index to where it is stored. With regard to it being arranged to select, Roewer teaches, in column 11, line 45, being arranged in a hierarchical manner for selection of specific images.

10. With regard to claim 3, which teaches that the user interface is arranged to add or remove an application selected by a user or from an image selection, Roewer teaches, in column 14, lines 20-30, that there are provide image tools to directly manipulate an image, and that an operator can temporarily hide text, drawing lines, or symbols placed on the screen.

11. With regard to claim 4, which teaches displaying feasible applications on the display unit, Roewer teaches, in column 19, lines 52-60, in column 11, line 1-15, and column 20, lines 48-53, that his text templates contain modality (form defining) information concerning the attributes of the source modality that produced the medical image, and other physical or technical attributes of the image. With regard to claim 4, which further teaches after selection of an application by the user, the interface performs selection of every one in that group, Roewer teaches, in column 9, lines 45-48, the operator opening a patient's window where he can specify all the patient's images to be displayed. With regard to claim 4, which further teaches presenting only the image selections that characterize the image data to the display, Roewer states, in column 11, lines 45-49, that the GUI provides a dialogue box which steps through a patient hierarchy (patient-study-series-acquisition-images) to select patient image data.

12. With regard to claim 5, which teaches that the interface causes the display to show feasible sub-functions for each application and that each of these sub-functions can be individually selected by a user, Roewer teaches, in column 4, line 46 and column 6, lines 7-14, that there are window oriented commands organized by type of action (application), and that the user can step from presenting a set of graphical interface commands at a workstation to actually manipulating the image display in response to the commands.

13. With regard to claim 6, which teaches the applications adjusted in a desired processing order, Roewer teaches, in column 3, lines 7-15, the adaptable and upgradeable nature of the image processing system.

14. With regard to claim 7, which teaches a medical analysis apparatus, Roewer teaches, in column 4, line 33 and column 4, line 46, providing a GUI for medical imagery in which all necessary information is visible. With regard to claim 7 further teaching arrangement to co-operate with a database for obtaining image data, Roewer teaches, in column 8, line 66, an operator loading a patients image data from a local database. With regard to claim 7 further teaching a visual display unit, Roewer teaches, in column 4, line 48, displaying the images on a workstation. With regard to claim 7 further teaching an input member allowing for communication, Roewer teaches in column 4, line 59, input via a mouse, hot keys, and other input devices. With regard to claim 7 further teaching the interface being arranged to select an image from each group of coherent image data, Roewer teaches, in column 11, lines 45-48, stepping through a hierarchy to select image data. With regard to claim 7 further teaching forming a

pictorial representative of the selected image, Roewer teaches, in column 4, lines 50-57, providing a visual representation of the images. With regard to claim 7, further teaching causing the representative pictorial to be displayed on the display unit, Roewer teaches, in column 13, line 35 and figures 4a-c, the display of the images. With regard to claim 7, further teaching the interface arranged to cause the display unit to display a plurality of representative pictorials in a row adjacent to one another, Roewer teaches, in column 13, lines 35-47, in column 9, lines 55-64 and in figures 4a-c, display of a plurality of representative pictorials in rows adjacent to one another. With regard to claim 7, further teaching the pictorials being formed from an image selected from a different group of coherent image data, Roewer teaches, in column 11, lines 34-36 and lines 45-54, using images from several different sources of grouped images (patient hierarchies) to create the select group of images (PCW), and further teaching, in column 45, lines 53-59, that with the window used for arrangement (PCW) the user can compose new images, based on previously captured images and translate the images in to ACR-NEMA communication format. With regard to claim 7, further teaching the interface being adapted to have the ability to be able to differentiate between representative pictorials which relate do and do not relate to a particular patient selected on the interface and cause only said representative pictorials which relate to said particular patient to remain displayed, Roewer teaches, in column 11, lines 45-54, column 5, lines 1-4, column 16, lines 33-34, and in figure 7, the user ability to select for display the images of a particular patient, this can further be seen in figure 7, where a user is able to select for display via the "GO" tab in the menu bar images of a "previous

patient" or "next patient". With regard to claim 7, further teaching that the interface has the ability to be able to differentiate independent of sequential order of said representative pictorials between said representative pictorials which relate to and do not relate to a particular patient, Roewer teaches, in column 11, lines 34-54, column 19, lines 11-17, and column 20, lines 44-53, selectively displaying the images on the screen where the images have a patients name superimposed over the image.

15. With regard to claims 8 and 9, which teach the interface being arranged to display feasible applications and the image data that can be processed by the selected application, Roewer teaches, in column 11, lines 45-54, a hierarchy of patient image data, where the user can select a patient and step through the available acquisitions (devices, complete with accompanying programs), to the individual images.

16. With regard to claim 10, which teaches the application and sub-functions being adjustable in desired processing order, Roewer teaches, in column 3, lines 7-15, the adaptable and upgradeable nature of the image processing system, which is what the specification of the application states is the purpose of adjusting processing order.

17. With regard to claim 11, which teaches the application being adjustable in desired processing order, Roewer teaches, in column 3, lines 7-15, the adaptable and upgradeable nature of the image processing system, which is what the specification of the application states is the purpose of adjusting processing order.

18. With regard to claim 12, which teaches the sub-functions being adjustable in desired processing order, Roewer teaches, in column 3, lines 7-15, the adaptable and

upgradeable nature of the image processing system, which is what the specification of the application states is the purpose of adjusting processing order.

19. With regard to claim 13, which teaches the image data being medical image data, Roewer teaches, in column 4, lines 33-38, the graphical user interface for medical imagery.

20. With regard to claim 14, which teaches the representative pictorial is a small image showing coarse details only formed from the selected image of each group of coherent image data, Roewer teaches, in column 13, lines 50-55, displaying a single frame to examine finer detail.

21. With regard to claim 15, which teaches the interface being arranged to display only feasible applications for each group of image data simultaneously and in association with the pictorial representation of the image selected from the group of coherent image data, Roewer teaches, in column 4, lines 50-57, arrangement so that only relevant information is displayed and grouping image data.

22. With regard to claim 16, which teaches the image being combined with attribute data, Roewer teaches, in column 19, lines 15-20, the image having attribute data. With regard to claim 16, further teaching analyzing attribute data to determine whether to display the image data upon receiving a viewing command as a film or individually as pictorials, Roewer teaches, in column 9, lines 40-51 and column 11, lines 45-48, the selection of patient images for display where selection is based the specific patient hierarchy and the available cameras which also define certain formatting information (film size, frame layouts available).

23. With regard to claim 18, which teaches displaying all applications for each group of coherent image data simultaneously and in association with the pictorial representation of the image, Roewer teaches, in column 11, lines 45-54, displaying through a patient hierarchy, where acquisitions (grouped by application) lead to the actual images from that specific device. With regard to claim 18, further teaching contrasting feasible application for each group of coherent image data with non-feasible applications, Roewer teaches, in column 4, lines 50-57, arrangement so that only relevant information is displayed (applications that are not feasible will not even be displayed, or in another common case grayed out)

24. With regard to claim 19, which teaches the image data combined with attribute data in a database, which characterizes a patient, or the relevant image data, Roewer teaches, in column 9, lines 40-51 and column 19, lines 15-20, the image having attribute data where the image is stored in a database. With regard to claim 19, further teaching the interface selecting feasible applications for each group of coherent image data, Roewer teaches, in column 11, lines 45-54, displaying through a patient hierarchy, where acquisitions (images from a specific device running a specific application) lead to the actual images from that specific device. With regard to claim 19, further teaching the display of only those representative pictorial for which the selected application is available, Roewer teaches, in column 11, lines 45-54, selection through a patient hierarchy, where acquisitions (images from a specific device running a specific application) lead to the actual images from that specific device.

25. With regard to claim 20, which teaches the interface being arranged to display feasible applications and differentiate between feasible applications that relate to or do not relate to the particular patient selected on the interface, and only display the feasible applications, Roewer teaches, in column 19, lines 52-60, in column 11, line 1-15, and column 20, lines 48-53, the images have text templates associated with them defining the format and contents of the data field. The Text Templates also have both Patient and Modality information superimposed over the medial image, comprising information specific to the particular patient selected, and further information regarding the source modality that produced the image, and other physical and technical attributes of the image.

Claim Rejections - 35 USC § 103

26. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

27. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Roewer and Evans, Patent # 6,347,329.

28. With regard to claim 21, Roewer teaches a system for acquiring groups medical image data and associated image information from databases and providing it on a display, but doesn't teach the feasible applications and representative pictorials being displayed in a tab page structure, which corresponds to relevant hospital department's

workflow. Evans teaches a system which health care providers can access and display groups of patient images on a graphical user interface (see column 5, lines 1-33), similar to that of Roewer, but further teaches, the display of medial images for the corresponding patient in a tabular form (see column 6, lines 42-59). It would have been obvious to one of ordinary skill in the art, having the teachings of Roewer and Evans before him at the time the invention was made to modify the image display system of Roewer to display images in a tabular access form, and further to use this data for department workflow (give it is separated into departments such as laboratory), as did Evans. One would have been motivated to make such a combination because this provides a more organized view of patient data.

Response to Arguments

29. The arguments filed on 10-24-2005 have been fully considered but they are not persuasive. The reasons are set forth below.

30. With respect to the applicant's argument that, Roewer does not describe a system in which the user rather than the interface of the workstation determines and differentiates whether the images are related or not to a particular patient.

31. In response to applicant's argument the examiner respectfully submits that claim states that "...the interface is arranged to select an image from each group of coherent image data..." This limitation is read as a interface, which as can be seen from line 1 of the claim is a user interface, which allows for user selection of images. A user interface as defined in the art is a "portion of a program with which a user interacts".

32. With respect to the applicant's argument that, Roewer does not disclose, teach or suggest that "selection of the patient is done independent of sequential order".

33. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., selection of the patient is done independent of sequential order) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

34. The claim does state that the interface has "the ability to be able to differentiate independent of sequential order of said representative pictorials between said representative pictorials which relate to and do not relate to a particular patient", which itself is not positively recited, but the examiner will point out how the reference reads on this limitation. Roewer teaches, in column 11, lines 45-54, column 5, lines 1-4, column 16, lines 33-34, and in figure 7, the user ability to select for display the images of a particular patient, this can further be seen in figure 7, where a user is able to select for display via the "GO" tab in the menu bar images of a "previous patient" or a "next patient". This selection of images of a particular patient can be made without the user picking each of the images individually for display, but by selecting the particular patient from the list of all patients resulting in the automatic display of the corresponding patient's images. It is true that a user can select images individually for display (see column 11, line 35), but this itself is done by stepping through groups of patient specific

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images (see column 11, lines 45-54). Furthermore, Roewer teaches, in column 11, lines 34-54, column 19, lines 11-17, and column 20, lines 44-53, selectively displaying the images on the screen where the images have a patients name superimposed over the image (for purposes of differentiating between different patient images).

35. With respect to the applicant's argument that one would not consider the combination because Roewer relies on user control of the system as opposed to the automated sophisticated electronic medical records system of Evans.

36. In response to applicant's argument the examiner respectfully submits that both Roewer and Evans teach analogous systems comprising a centralized electronic database which contains patient image data for a plurality of patients to be supplied for healthcare workers on a user interface. Evans further shows this display in a tabbed view (see column 6, lines 42-59 and figures 5 and 8). Furthermore, Roewer teaches, in column 10, lines 5-15, embodiments where a user specified displayed images, and an embodiment where the frames are loaded automatically with patient images, similar to that of Evans.

Conclusion

37. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis G. Bonshock whose telephone number is (571) 272-4047. The examiner can normally be reached on Monday - Friday, 6:30 a.m. - 4:00 p.m.

38. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (571) 272-4048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

39. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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dgb



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ART UNIT 2173